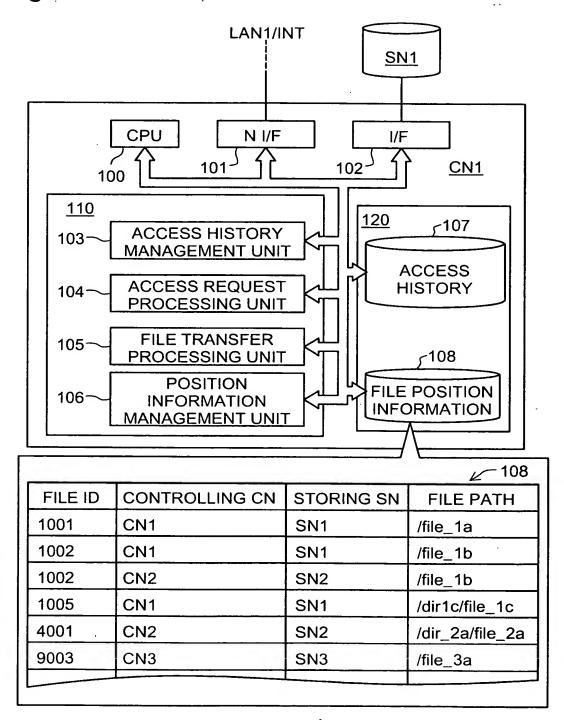


Fig.2



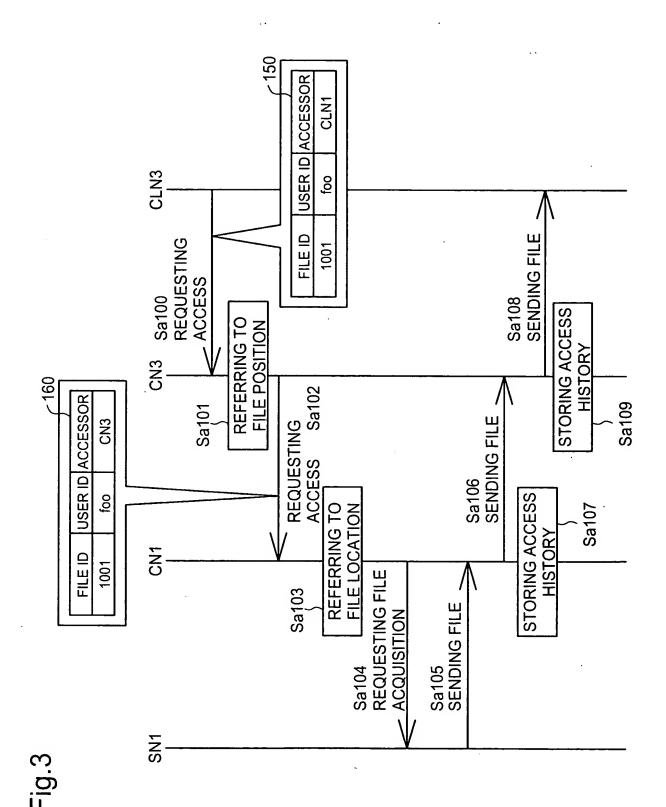


Fig.4

107	ACCESSOR	CLN1	CN3	CN3	CN3							
	USER ID	foo	00J									
	FILE ID	1001	1002	1001	1002	1002	1001	1001	1001	1001	1001	
	REQUEST TIME	15:57:10	16:10:11	17:32:20	19:53:34	21:43:10	20:20:03	08:45:54	09:50:23	13:23:28	09:35:23	1
	REQUEST DATE	2003/07/09	2003/07/10	2003/07/11	2003/07/11	2003/07/11	2003/07/11	2003/07/12	2003/07/13	2003/07/13	2003/07/14	
	0	~	2	3	4	5	9	2	8	6	10	

Fig.5

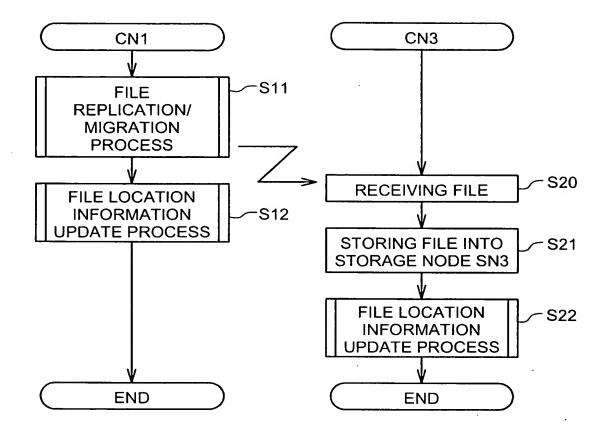


Fig.6

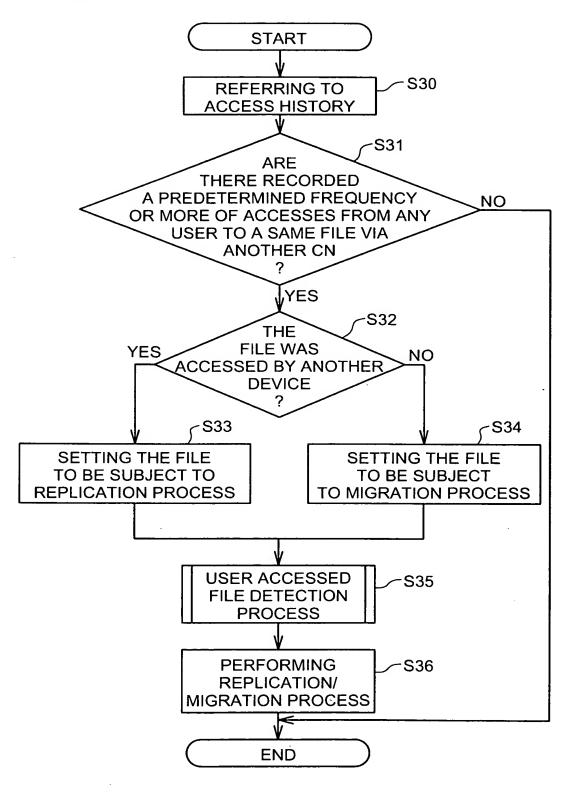


Fig.7

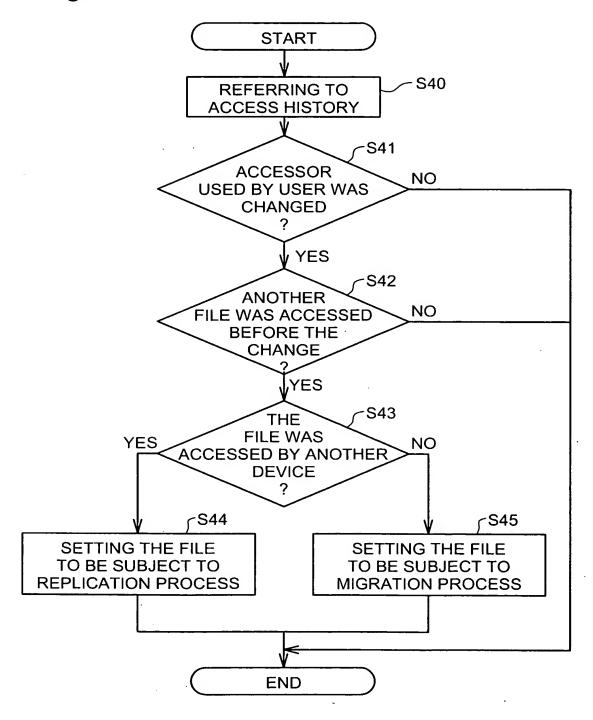


Fig.8A

MIGRATION

1	(J	8	3

FILE ID	CONTROLLING CN	STORING SN	FILE PATH
1001	CN1	SN1	/file_1a
1002	CN1	SN1	/file_1b
1002	CN2	SN2	/file_1b

1

108a

			<u>100u</u>
FILE ID	CONTROLLING CN	STORING SN	FILE PATH
1001	CN3	SN3	/file_1a
1002	CN3	SN3	/file_1b
1002	CN2	SN2	/file_1b

Fig.8B

REPLICATION

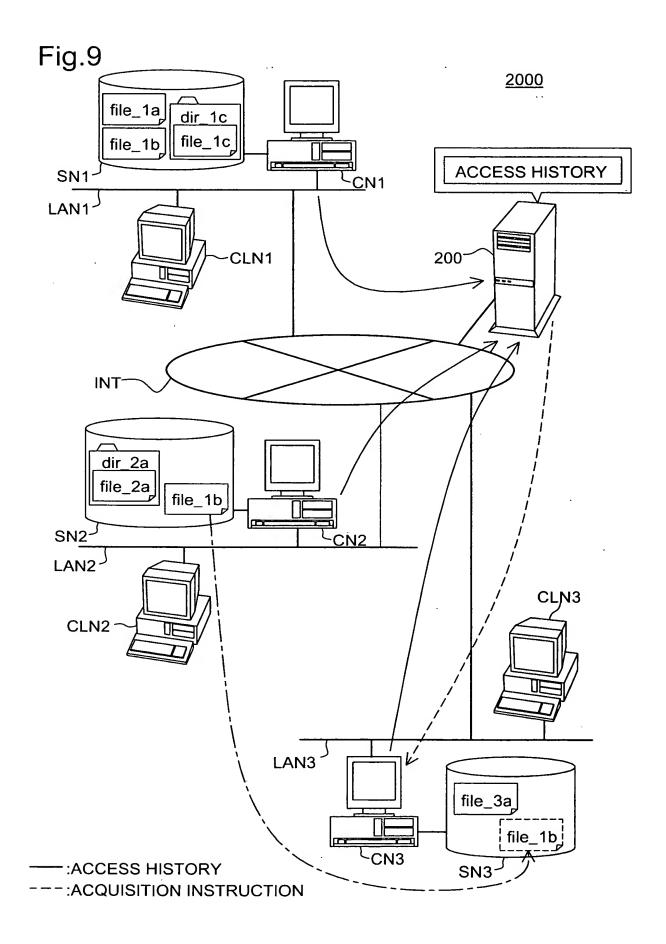
<u>108</u>

1002	CN2	SN2	/file_1b
1002	CN1	SN1	/file_1b
1001	CN1	SN1	/file_1a
FILE ID	CONTROLLING CN	STORING SN	FILE PATH



<u>108a</u>

FILE ID	CONTROLLING CN	STORING SN	FILE PATH
1001	CN1	SN1	/file_1a
1001	CN3	SN3	/file_1a
1002	CN1	SN1	/file_1b
1002	CN2	SN2	/file_1b
1002	CN3	SN3	/file_1b



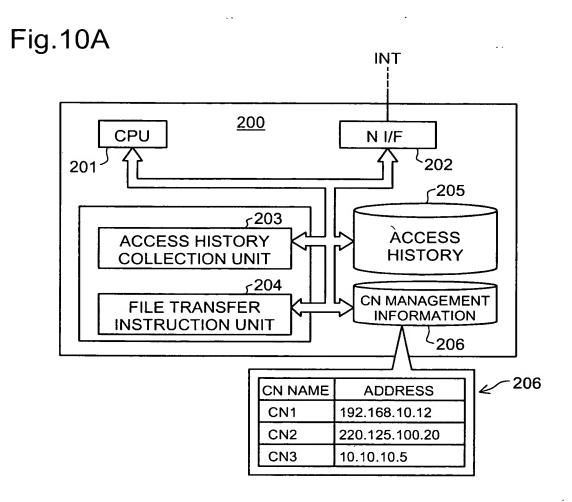


Fig.10B

			<u>:</u>	<u>300</u>	
REQUEST DATE	REQUEST TIME	FILE ID	FILE INTERMEDIARY CN	ACCESSOR	
2003/05/05	12:15:30	4001	CN2	CLN1	~301
2003/05/05	16:40:52	1001	CN1	CLN1	~302
2003/05/05	20:36:11	1005	. CN1	CN2	~303

Fig.11

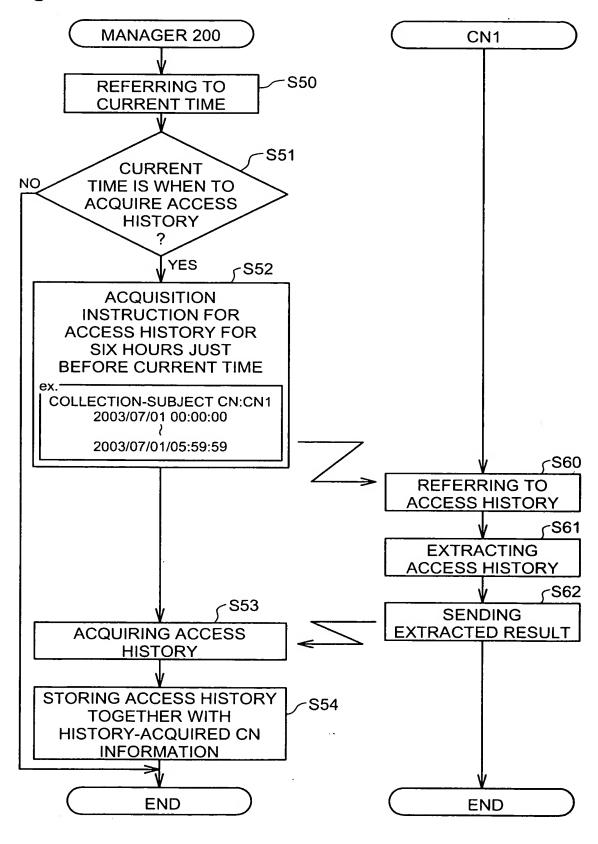


Fig. 12

205

				•		
0	REQUEST DATE	REQUEST TIME	FILE ID	FILE INTERMEDIARY CN	ACCESSOR	HISTORY-ACQUIRED CN
1	2003/07/09	15:57:10	1002	CN1	CLN1	CN1
2	2003/07/11	17:32:20	1001	CN1	CLN1	CN1
3	2003/07/11	17:32:20	1002	CN1	CLN1	CN1
4	2003/07/11	19:53:34	1001	CN1	CLN1	CN1
5	2003/07/11	21:43:10	1002	CN2	CLN3	CN3
9	2003/07/11	20:20:03	1002	CN2	CLN3	CN3
7	2003/07/12	08:45:54	1002	CN2	CLN3	CN3

